

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2005/000319

Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language _____, which is the language of a translation furnished for the purposes of:
- ☐ international search (Rule 12.3 and 23.1(b))
- ☐ publication of the international application (Rule 12.4)
- ☐ international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the **elements** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 2, 6-14 as originally filed/furnished
- pages* 1, 3, 3a, 4, 5 received by this Authority on 15.11.2005 with letter of 11.11.2005
- pages* _____ received by this Authority on _____
- ☒ the claims:
- nos. 10 as originally filed/furnished
- nos.* _____ as amended (together with any statement) under Article 19
- nos.* 1-9 received by this Authority on 15.11.2005 with letter of 11.11.2005
- nos.* _____ received by this Authority on _____
- ☒ the drawings:
- sheets 1/4-4/4 as originally filed/furnished
- sheets* _____ received by this Authority on _____
- sheets* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages _____
- ☐ the claims, nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages _____
- ☐ the claims, nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1.	Statement		
	Novelty (N)	Claims <u>1-9</u>	YES
		Claims _____	NO
	Inventive step (IS)	Claims <u>1-9</u>	YES
		Claims _____	NO
	Industrial applicability (IA)	Claims <u>1-9</u>	YES
		Claims _____	NO
2.	Citations and explanations (Rule 70.7)		
	Reference is made to the following documents:		
	<p>D1: SHIMADA M ET AL: "Melanin and blood concentration in a human skin model studied by multiple regression analysis: Assessment by Monte Carlo simulation" PHYSICS IN MEDICINE AND BIOLOGY, Vol. 46, No. 9, September 2001 (2001-09), pages 2397-2406, XP002325296 ISSN: 0031-9155</p> <p>D2: US 2003/223060 A1 (GRAF JOHN FREDERICK ET AL) 4 December 2003 (2003-12-04)</p> <p>D3: US-A-5 717 605 (KOMIYA ET AL) 10 February 1998 (1998-02-10)</p> <p>D4: DE 196 52 885 A1 (BASF COATINGS AG, 48165 MUENSTER, DE) 25 June 1998 (1998-06-25)</p> <p>Document D1 is considered the prior art closest to the subject matter of claim 1 and discloses a method for determining the colour effect of dispersive materials, according to the preamble of claim 1.</p> <p>The subject matter of claim 1 thus differs from</p>		

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	<p>the known method in that a corrected absorption co-efficient is calculated by an additional inverse Monte Carlo simulation based on the remission of the particular material of an optically dense layer.</p> <p>The subject matter of claim 1 is thus novel (PCT Article 33(2)).</p> <p>The present invention can therefore be considered to address the problem of achieving a sufficiently precise determination of the colour effect of the multilayer system. This is of particular significance in the dental industry, since even minimal differences in colour between dentures and natural teeth are discernible.</p> <p>Such a solution is not suggested by the cited prior art. The solution to the problem of interest as proposed in claim 1 of the present application therefore involves an inventive step (PCT Article 33(3)).</p> <p>Claims 2 to 9 are dependent on claim 1 and therefore likewise meet the PCT requirements for novelty and inventive step.</p>